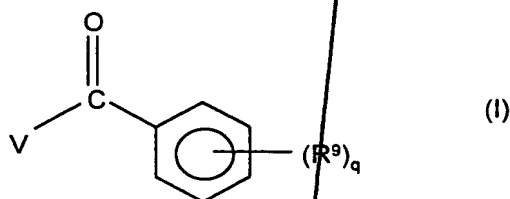


We claim:

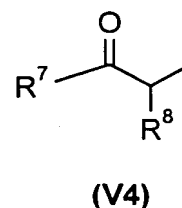
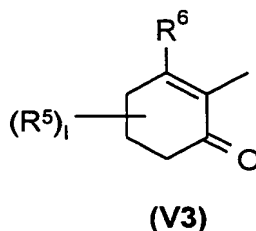
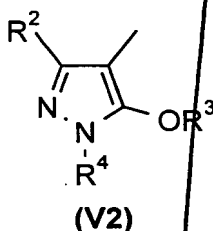
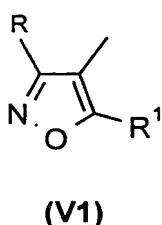
1. A herbicidally active composition comprising a mixture of

A. a herbicidally active amount of one or more compounds of the formula (I)



10 in which

V is a radical selected from the group consisting of (V1) to (V4),



15

where the symbols and indices have the following meanings:

20 R is hydrogen, (C₁-C₄)-alkoxycarbonyl, (C₁-C₄)-haloalkoxycarbonyl, (C₁-C₄)-alkylsulfonyl, (C₁-C₄)-alkylsulfinyl, (C₁-C₄)-alkylthio, COOH, cyano;

25 R¹ is hydrogen, (C₁-C₄)-alkyl, (C₂-C₄)-alkenyl, (C₁-C₄)-alkynyl, (C₃-C₈)-cycloalkyl, (C₃-C₈)-cycloalkenyl, (C₁-C₄)-alkyl-(C₃-C₈)-cycloalkyl, (C₃-C₇)-halocycloalkyl, (C₁-C₄)-alkylthio(C₃-C₈)-cycloalkyl, (C₁-C₈)-haloalkyl or (C₂-C₈)-haloalkenyl;

R² is hydrogen, (C₁-C₄)-alkyl, (C₁-C₄)-alkoxy, (C₁-C₄)-haloalkyl, halogen, (C₁-C₄)-haloalkoxy, cyano, nitro;

R^3 is hydrogen, (C₁-C₄)-alkyl, (C₂-C₄)-alkenyl, (C₂-C₄)-alkynyl, (C₁-C₄)-haloalkyl, (C₁-C₄)-alkoxy-(C₁-C₄)-alkyl, (C₁-C₄)-alkylcarbonyl, (C₁-C₄)-alkylsulfonyl, (C₁-C₄)-haloalkylsulfonyl, (C₁-C₄)-alkyl-substituted or unsubstituted arylsulfonyl, (C₁-C₄)-alkyl-substituted or unsubstituted arylcarbonyl-(C₁-C₄)-alkyl or (C₁-C₄)-alkyl-substituted or unsubstituted aryl-(C₁-C₄)-alkyl;

R^4 is hydrogen, (C₁-C₄)-alkyl, (C₂-C₄)-alkenyl, (C₂-C₄)-alkynyl, (C₁-C₄)-haloalkyl, phenyl or benzyl;

R^5 is (C₁-C₄)-alkyl, (C₁-C₄)-alkoxy, (C₁-C₄)-alkoxy-(C₁-C₄)-alkyl, (C₁-C₄)-dialkoxy-(C₁-C₄)-alkyl, (C₁-C₄)-alkylthio, halogen, substituted or unsubstituted aryl, tetrahydropyran-4-yl, tetrahydropyran-3-yl, tetrahydrothiopyran-3-yl, 1-methylthiocyclopropyl, 2-ethylthiopropyl or two radicals R^5 together are (C₂-C₄)-alkylene;

R^6 is hydroxyl, (C₁-C₄)-alkoxy, (C₁-C₈)-haloalkoxy, formyloxy, (C₁-C₄)-alkylcarbonyloxy, (C₁-C₄)-alkylsulfonyloxy, (C₁-C₄)-alkylthio, (C₁-C₄)-haloalkylthio, arylthio, aryloxy, (C₁-C₄)-alkylsulfinyl or (C₁-C₄)-alkylsulfonyl;

R^7 is (C₁-C₄)-alkyl, (C₁-C₄)-haloalkyl, (C₃-C₈)-cycloalkyl, (C₁-C₄)-alkyl-(C₃-C₈)-cycloalkyl or (C₃-C₈)-halocycloalkyl;

R^8 is cyano, (C₁-C₄)-alkoxycarbonyl, (C₁-C₄)-alkylcarbonyl, (C₁-C₄)-alkylsulfonyl, (C₁-C₄)-alkylsulfinyl, (C₁-C₄)-alkylthio, (C₁-C₄)-alkylaminocarbonyl or (C₁-C₄)-dialkylaminocarbonyl;

l is an integer from 0 to 6, where if $l \geq 2$ the radicals R^5 can be identical or different from each other, and

R^9 are identical or different nitro, amino, (C₁-C₄)-alkyl, (C₂-C₄)-alkenyl, (C₂-C₄)-alkynyl, halogen, (C₁-C₄)-haloalkyl, (C₂-C₄)-haloalkenyl, (C₂-C₄)-haloalkynyl, (C₁-C₄)-haloalkoxy, (C₁-C₄)-haloalkylthio, (C₁-C₄)-alkoxycarbonyl, (C₁-C₄)-alkylsulfonyl, (C₁-C₄)-alkylsulfinyl, (C₁-C₄)-alkylthio, arylsulfonyl, arylsulfinyl, arylthio, (C₁-C₄)-alkoxy, (C₁-C₄)-alkoxy-(C₁-C₄)-alkoxy, (C₁-C₄)-alkylthio-(C₁-C₄)-alkoxy, (C₁-C₄)-alkylcarbonyl, (C₁-C₄)-alkylaminosulfonyl, (C₁-C₄)-dialkylaminosulfonyl, (C₁-C₄)-

alkylcarbamoyl, (C₁-C₄)-dialkylcarbamoyl, (C₁-C₄)-alkoxy-(C₁-C₄)-alkyl, phenoxy, cyano, aryl, alkylamino or dialkylamino;

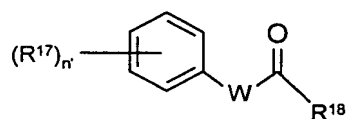
q is 0, 1, 2, 3 or 4;

5

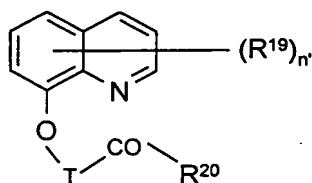
and

B. an antidote-effective amount of one or more safeners selected from the group consisting of :

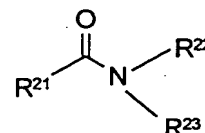
10 a) compounds of the formulae (II) to (IV),



(II)



(III)



(IV)

where the symbols and indices have the following meanings:

15

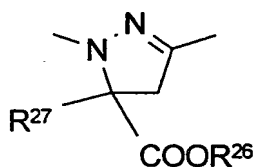
n' is a natural number from 0 to 5;

T is a (C₁ or C₂)-alkanediyl chain which is unsubstituted or substituted by one or two (C₁-C₄)-alkyl radicals or by [(C₁-C₃)-alkoxy]carbonyl;

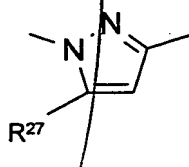
20

W is an unsubstituted or substituted divalent heterocyclic radical selected from the group of the partially unsaturated or aromatic five-membered heterocyclic rings which have 1 to 3 hetero ring atoms of the N or O type, where the ring contains at least one N atom and not more than one O atom, preferably a radical selected from the group consisting of (W1) to (W4),

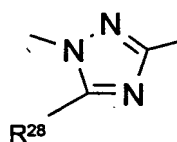
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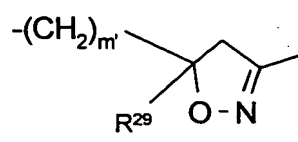
(W1)



(W2)



(W3)



(W4)

m' is 0 or 1;

R^{17} , R^{19} are identical or different halogen,
(C₁-C₄)-alkyl, (C₁-C₄)-alkoxy, nitro or (C₁-C₄)-haloalkyl;

5 R^{18} , R^{20} are identical or different OR^{24} , SR^{24} or $NR^{24}R^{25}$ or a saturated or unsaturated 3- to 7-membered heterocycle having at least one N atom and up to 3 hetero atoms, which is linked to the carbonyl group in (II) or (III) via the N atom and is unsubstituted or substituted by radicals selected from
10 the group consisting of (C₁-C₄)-alkyl, (C₁-C₄)-alkoxy or optionally substituted phenyl;

R^{24} is hydrogen or an unsubstituted or substituted aliphatic hydrocarbon radical;

15 R^{25} is hydrogen, (C₁-C₆)-alkyl, (C₁-C₆)-alkoxy or substituted or unsubstituted phenyl;

R^{26} is hydrogen, (C₁-C₈)-alkyl, (C₁-C₈)-haloalkyl, (C₁-C₄)-alkoxy-(C₁-C₄)-alkyl, (C₁-C₆)-hydroxyalkyl, (C₃-C₁₂)-cycloalkyl or tri-(C₁-C₄)-alkyl-silyl;

R^{27} , R^{28} , R^{29} are identical or different hydrogen, (C₁-C₈)-alkyl, (C₁-C₈)-haloalkyl, (C₃-C₁₂)-cycloalkyl or substituted or unsubstituted phenyl;

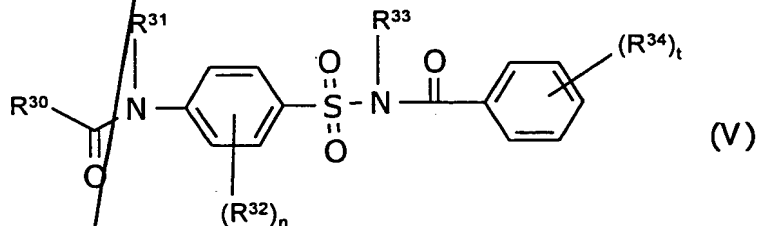
25 R^{21} is (C₁-C₄)-alkyl, (C₁-C₄)-haloalkyl, (C₂-C₄)-alkenyl, (C₂-C₄)-haloalkenyl, (C₃-C₇)-cycloalkyl;

R^{22} , R^{23} are identical or different hydrogen, (C₁-C₄)-alkyl, (C₂-C₄)-alkenyl, (C₂-C₄)-alkynyl, (C₁-C₄)-haloalkyl, (C₂-C₄)-haloalkenyl, (C₁-C₄)-alkylcarbamoyl-(C₁-C₄)-alkyl, (C₂-C₄)-alkenylcarbamoyl-(C₁-C₄)-alkyl, (C₁-C₄)-alkoxy-(C₁-C₄)-alkyl, dioxolanyl-(C₁-C₄)-alkyl, thiazolyl, furyl, furylalkyl, thienyl, piperidyl, substituted or unsubstituted phenyl, or R^{22} and R^{23}
30 together form a substituted or unsubstituted heterocyclic ring, preferably an oxazolidine, thiazolidine, piperidine, morpholine, hexahydropyrimidine or
35 benzoxazine ring;

b) one or more compounds from the group consisting of:

- 1,8-naphthalic anhydride,
methyl diphenylmethoxyacetate,
cyanomethoxyimino(phenyl)acetonitrile (cyometrinil),
5 1,3-dioxolan-2-ylmethoxyimino(phenyl)acetonitrile (oxabetrinil),
4'-chloro-2,2,2-trifluoroacetophenone O-1,3-dioxolan-2-ylmethyloxime
(fluxofenim),
4,6-dichloro-2-phenylpyrimidine (fenclorim),
benzyl 2-chloro-4-trifluoromethyl-1,3-thiazole-5-carboxylate (flurazole),
10 2-dichloromethyl-2-methyl-1,3-dioxolane (MG-191),
N-(4-methylphenyl)-N'-(1-methyl-1-phenylethyl)urea (dymrone),
1-[4-(N-2-methoxybenzoylsulfamoyl)phenyl]-3-methylurea,
1-[4-(N-2-methoxybenzoylsulfamoyl)phenyl]-3,3-dimethylurea,
1-[4-(N-4,5-dimethylbenzoylsulfamoyl)phenyl]-3-methylurea,
15 1-[4-(N-naphthoylsulfamoyl)phenyl]-3,3-dimethylurea,
(2,4-dichlorophenoxy)acetic acid (2,4-D),
(4-chlorophenoxy)acetic acid,
(R,S)-2-(4-chloro-o-tolyloxy)propionic acid (mecoprop),
4-(2,4-dichlorophenoxy)butyric acid (2,4-DB),
20 (4-chloro-o-tolyloxy)acetic acid (MCPA),
4-(4-chloro-o-tolyloxy)butyric acid,
4-(4-chlorophenoxy)butyric acid,
3,6-dichloro-2-methoxybenzoic acid (dicamba),
1-(ethoxycarbonyl)ethyl 3,6-dichloro-2-methoxybenzoate (lactidichlor)
25 and their salts and esters;

c) N-acylsulfonamides of the formula (V) and their salts



30

in which

R^{30} is hydrogen, a hydrocarbon radical, a hydrocarbon-oxy radical, a hydrocarbon-thio radical or a heterocyclyl radical, it being possible for each

of the 4 last-mentioned radicals being unsubstituted or being substituted by one or more identical or different radicals selected from the group consisting of halogen, cyano, nitro, amino, hydroxyl, carboxyl, formyl, carboxamide, sulfonamide and radicals of the formula Z^a-R^a , each hydrocarbon moiety preferably having 1 to 20 carbon atoms and a carbon-containing radical R^{30} inclusive of substituents preferably having 1 to 30 carbon atoms;

R^{31} is hydrogen or (C₁-C₄)-alkyl, or

R^{30} and R^{31} together with the group of the formula -CO-N- are the residue of a 3- to 8-membered saturated or unsaturated ring;

R^{32} is identical or different halogen, cyano, nitro, amino, hydroxyl, carboxyl, formyl, CONH₂, SO₂NH₂ or a radical of the formula Z^b-R^b ;

R^{33} is hydrogen or (C₁-C₄)-alkyl;

R^{34} is identical or different halogen, cyano, nitro, amino, hydroxyl, carboxyl, CHO, CONH₂, SO₂NH₂ or a radical of the formula Z^c-R^c ;

R^a is a hydrocarbon radical or a heterocyclyl radical, each of the two last-mentioned radicals being unsubstituted or substituted by one or more identical or different radicals selected from the group consisting of halogen, cyano, nitro, amino, hydroxyl, mono- and di-[(C₁-C₄)-alkyl]amino, or an alkyl radical in which a plurality, preferably 2 or 3, non-adjacent CH₂ groups are in each case replaced by one oxygen atom;

R^b, R^c are identical or different and are a hydrocarbon radical or a heterocyclyl radical, each of the two last-mentioned radicals being unsubstituted or substituted by one or more identical or different radicals selected from the group consisting of halogen, cyano, nitro, amino, hydroxyl, phosphoryl, halo-(C₁-C₄)-alkoxy, mono- and di-[(C₁-C₄)-alkyl]amino, or an alkyl radical in which a plurality, preferably 2 or 3, non-adjacent CH₂ groups are replaced in each case by one oxygen atom;

Z^a is a divalent group of the formula O, S, CO, CS, CO-O, CO-S, O-CO, S-CO, SO, SO₂, NR*, CO-NR*, NR*-CO, SO₂-NR* or NR*-SO₂, the

bond given on the right-hand side of each of the divalent groups being the bond to the radical R^a , and the radicals R^* in the 5 last-mentioned radicals independently of each other being in each case H, (C₁-C₄)-alkyl or halo-(C₁-C₄)-alkyl;

5

Z^b, Z^c independently of one another are a direct bond or a divalent group of the formula O, S, CO, CS, CO-O, CO-S, O-CO, S-CO, SO, SO₂, NR*, SO₂-NR*, NR*-SO₂, CO-NR* or NR*-CO, where, in asymmetrical divalent groups, the atom on the right-hand side is linked to the radical R^b or R^c and where the radicals R^* in the 5 last-mentioned radicals independently of one another are in each case H, (C₁-C₄)-alkyl or halo-(C₁-C₄)-alkyl;

10

n is an integer from 0 to 4, and

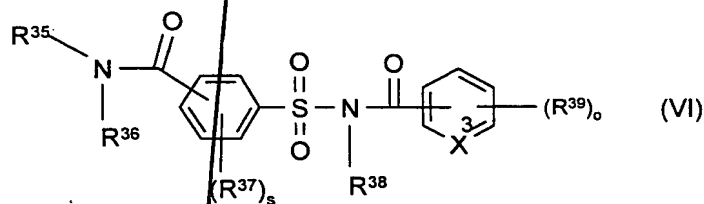
15

t is an integer from 0 to 5.

M

20

d) Acylsulfamoylbenzamides of the formula (VI), optionally also in salt form,



in which

25

X^3 is CH or N;

R^{35} is hydrogen, heterocyclyl or a hydrocarbon radical, the two last-mentioned radicals optionally being substituted by one or more identical or different radicals selected from the group consisting of halogen, cyano, nitro, amino, hydroxyl, carboxyl, CHO, CONH₂, SO₂NH₂ and Z^d-R^d ;

30

R^{36} is hydrogen, hydroxyl, (C₁-C₆)-alkyl, (C₂-C₆)-alkenyl, (C₂-C₆)-alkynyl, (C₁-C₆)-alkoxy, (C₂-C₆)-alkenyloxy, the five last-mentioned radicals optionally being substituted by one or more identical or different


radicals selected from the group consisting of halogen, hydroxyl, (C₁-C₄)-alkyl, (C₁-C₄)-alkoxy and (C₁-C₄)-alkylthio, or

5 R³⁵ and R³⁶ together with the nitrogen atom to which they are attached are a 3- to 8-membered saturated or unsaturated ring;

R³⁷ is identical or different halogen, cyano, nitro, amino, hydroxyl, carboxyl, CHO, CONH₂, SO₂NH₂ or Z^e-R^e;

10 R³⁸ is hydrogen, (C₁-C₄)-alkyl, (C₂-C₄)-alkenyl or (C₂-C₄)-alkynyl;

R³⁹ is identical or different halogen, cyano, nitro, amino, hydroxyl, carboxyl, phosphoryl, CHO, CONH₂, SO₂NH₂ or Z^f-R^f;

15  R^d is a (C₂-C₂₀)-alkyl radical whose carbon chain is interrupted once or more than once by oxygen atoms, or is heterocyclyl or a hydrocarbon radical, the two last-mentioned radicals optionally being substituted by one or more identical or different radicals selected from the group consisting of halogen, cyano, nitro, amino, hydroxyl, mono- and di-[(C₁-C₄)-alkyl]amino;

20 R^e, R^f are identical or different and are a (C₂-C₂₀)-alkyl radical whose carbon chain is interrupted once or more than once by oxygen atoms, or a heterocyclyl or a hydrocarbon radical, the two last-mentioned radicals optionally being substituted by one or more identical or different radicals
25 selected from the group consisting of halogen, cyano, nitro, amino, hydroxyl, phosphoryl, (C₁-C₄)-haloalkoxy, mono- and di-[(C₁-C₄)-alkyl]amino;

30 Z^d is a divalent unit selected from the group consisting of O, S, CO, CS, C(O)O, C(O)S, SO, SO₂, NR*, C(O)NR* or SO₂NR*;

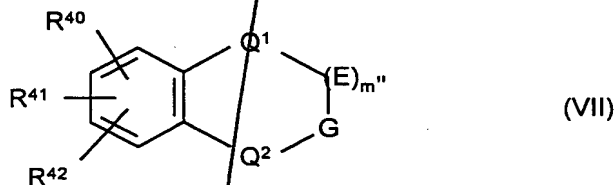
Z^e, Z^f are identical or different and are a direct bond or a divalent unit selected from the group consisting of O, S, CO, CS, C(O)O, C(O)S, SO, SO₂, NR*, SO₂NR* or C(O)NR*;

35 R* is hydrogen, (C₁-C₄)-alkyl or (C₁-C₄)-haloalkyl;

s is an integer from 0 to 4, and

o in the event that X is CH, is an integer from 0 to 5 and, in the event that X is N, is an integer from 0 to 4,

5 e) compounds of the formula (VII),



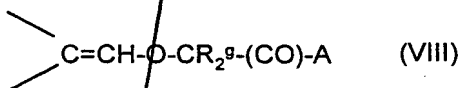
in which the symbols and indices have the following meanings:

10 *Am* R^{40} is H, (C₁-C₄)-alkyl, (C₁-C₄)-alkyl substituted by (C₁-C₄)-alkyl-X⁴ or (C₁-C₄)-haloalkyl-X⁴, (C₁-C₄)-haloalkyl, NO₂, CN, COO-R⁴³, NR₂⁴⁴, SO₂NR₂⁴⁵ or CONR₂⁴⁶;

15 R^{41} is H, halogen, (C₁-C₄)-alkyl, CF₃, (C₁-C₄)-alkoxy or (C₁-C₄)-haloalkoxy;

R^{42} is H, halogen or (C₁-C₄)-alkyl;

20 Q^1, Q^2, E, G are identical or different O, S, CR₂⁴⁷, CO, NR⁴⁸ or a group of the formula (VIII),



25 with the proviso that

α) at least one of the groups Q^1, Q^2, E, G is a carbonyl group, that exactly one of these groups is a radical of the formula (VIII) and that the group of the formula (VIII) is adjacent to a carbonyl group, and

30 β) two adjacent groups Q^1, Q^2, E and G cannot simultaneously be oxygen;

R^g is identical or different H or (C₁-C₈)-alkyl or the two radicals R^g together are (C₂-C₆)-alkylene;

A is Y^3-R^h or NR_2^{49} ;

5

X^4 is O or S(O)_x;

Y^3 is O or S;

10 R^h is H, (C₁-C₈)-alkyl, (C₁-C₈)-haloalkyl, (C₁-C₄)-alkoxy-(C₁-C₈)-alkyl, (C₃-C₆)-alkenyloxy-(C₁-C₈)-alkyl, or phenyl-(C₁-C₈)-alkyl, where the phenyl ring is optionally substituted by halogen, (C₁-C₄)-alkyl, CF₃, methoxy or methyl-S(O)_x; (C₃-C₆)-alkenyl, (C₃-C₆)-haloalkenyl, phenyl-(C₃-C₆)-alkenyl, (C₃-C₆)-alkynyl, phenyl-(C₃-C₆)-alkynyl, oxetanyl, furfuryl, tetrahydrofuryl;

15

R^{43} is H or (C₁-C₄)-alkyl;

20 R^{44} is identical or different H, (C₁-C₄)-alkyl, (C₁-C₄)-alkylcarbonyl or the two radicals R^{44} together are (C₄-C₅)-alkylene;

R^{45} , R^{46} independently of one another are in each case identical or different H, (C₁-C₄)-alkyl, or the two radicals R^{45} and/or R^{46} together are (C₄-C₅)-alkylene, where one CH₂ group can be replaced by O or S or one or two CH₂ groups can be replaced by NR^i ;

25

R^i is H or (C₁-C₈)-alkyl;

30 R^{47} is identical or different H, (C₁-C₈)-alkyl or the two radicals R^{47} together are (C₂-C₆)-alkylene;

R^{48} is H, (C₁-C₈)-alkyl, substituted or unsubstituted phenyl, or benzyl which is unsubstituted or substituted on the phenyl ring;

35 R^{49} is identical or different H, (C₁-C₈)-alkyl, phenyl, phenyl-(C₁-C₈)-alkyl, where a phenyl ring can be substituted by F, Cl, Br, NO₂, CN, OCH₃, (C₁-C₄)-alkyl or CH₃SO₂-; (C₁-C₄)-alkoxy-(C₁-C₈)-alkyl, (C₃-C₆)-alkenyl, (C₃-C₆)-alkynyl, (C₃-C₆)-cycloalkyl or two radicals R^{49} together are (C₄-C₅)-

alkylene, where one CH₂ group can be replaced by O or S or one or two CH₂ groups can be replaced by NR^k;

5 R^k is H or (C₁-C₄)-alkyl;

m'' is 0 or 1 and

x is 0, 1 or 2,

10 inclusive of the stereoisomers and the agriculturally customary salts, with the exclusion of mixtures in which

a) in the compound of the formula (I), V = V1 or V4 and the safener has the formula (IV) or is selected from the group consisting of

15 1,8-naphthalic anhydride,

methyl diphenylmethoxyacetate,

2-dichloromethyl-2-methyl-1,3-dioxolane,

cyanomethoxyimino(phenyl)acetonitrile,

1,3-dioxolan-2-ylmethoxyimino(phenyl)acetonitrile,

20 4'-chloro-2,2,2-trifluoroacetophenone O-1,3-dioxolan-2-ylmethyloxime,

4,6-dichloro-2-phenylpyrimidine,

benzyl-2-chloro-4-trifluoromethyl-1,3-thiazole-5-carboxylate and

1-methylhexyl (5-chloro-8-quinolinoxy)acetate; or

25 c) in the compound of the formula (I), V=V3 where R⁶ = OH, and the safener

- has the formula (II) where W = W1, W2, W3 or W4 where m' = 1 or

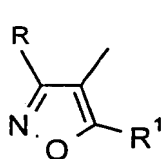
- has the formula (III) and T is a (C₁- or C₂)-alkanediyl chain which is unsubstituted or substituted by one or two (C₁-C₄)-alkyl radicals, or

30 - has the formula (IV), or

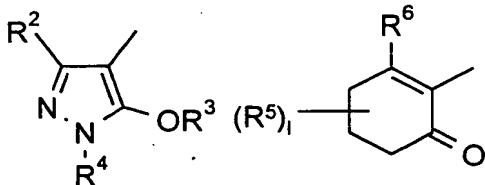
- is a compound from the group consisting of 1,8-naphthalic anhydride, cyanomethoxyimino(phenyl)acetonitrile, oxabetrinil, fluxofenim and flurazole.

35 2. A herbicidally active composition as claimed in claim 1 where, in the compound of the formula (I),

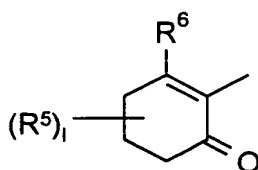
V is a radical selected from the group consisting of (V1) to (V4)



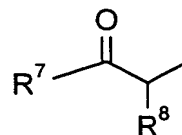
(V1)



(V2)



(V3)



(V4)

where the symbols and indices have the following meanings:

5 R is hydrogen, (C₁-C₄)-alkoxycarbonyl;

 R¹ is (C₃-C₇)-cycloalkyl, (C₁-C₄)-alkyl-(C₃-C₇)-cycloalkyl;

 R² is hydrogen;

10

 R³ is hydrogen, (C₁-C₄)-alkyl, (C₁-C₄)-alkyl-substituted
 arylsulfonyl, (C₁-C₄)-alkyl-arylcarbonylmethyl, benzyl;

 R⁴ is (C₁-C₄)-alkyl;

15

 R⁵ is (C₁-C₄)-alkyl, (C₁-C₄)-alkoxy or two radicals R⁵ are C₂-
 alkenyl;

 R⁶ is hydroxyl, (C₁-C₄)-alkoxy, phenylthio;

20

 R⁷ is (C₃-C₇)-cycloalkyl;

 R⁸ is cyano;

25

 I is an integer from 0 to 3, where, if I ≥ 2, the radicals R⁵ can be
 identical or different from each other, and

 R⁹ are identical or different (C₁-C₄)-alkyl, halogen, nitro, (C₁-C₄)-
 haloalkyl, (C₁-C₄)-haloalkoxy, (C₁-C₄)-alkylsulfonyl, (C₁-C₄)-
30 alkylsulfonyloxy, (C₁-C₄)-alkylsulfonylamino, (C₁-C₄)-
 alkoxycarbonyl;

 q is 0, 1, 2, or 3.

3. A herbicidally active composition as claimed in claim 1 or 2, which comprises safeners of the formula (II) and/or (III) where the symbols and indices have the following meanings:

5 R^{18}, R^{20} are OR^{24} ;

R^{24} is hydrogen, (C₁-C₁₈)-alkyl, (C₃-C₁₂)-cycloalkyl, (C₂-C₈)-alkenyl and (C₂-C₁₈)-alkynyl, it being possible for the carbon-containing groups to be substituted by one or more radicals R^{50} ;

10

R^{50} is identical or different halogen, hydroxyl, (C₁-C₈)-alkoxy, (C₁-C₈)-alkylthio, (C₂-C₈)-alkenylthio, (C₂-C₈)-alkynylthio, (C₂-C₈)-alkenyloxy, (C₂-C₈)-alkynyloxy, (C₃-C₇)-cycloalkyl, (C₃-C₇)-cycloalkoxy, cyano, mono- and di-(C₁-C₄)-alkylamino, carboxyl, (C₁-C₈)-alkoxycarbonyl, (C₂-C₈)-alkenyloxycarbonyl, (C₁-C₈)-alkylthiocarbonyl, (C₂-C₈)-alkynyloxycarbonyl, (C₁-C₈)-alkylcarbonyl, (C₂-C₈)-alkenylcarbonyl, (C₂-C₈)-alkynylcarbonyl, 1-(hydroxyimino)-(C₁-C₆)-alkyl, 1-[(C₁-C₄)-alkylimino]-(C₁-C₄)-alkyl, 1-[(C₁-C₄)-alkoxyimino]-(C₁-C₆)-alkyl, (C₁-C₈)-alkylcarbonylamino, (C₂-C₈)-alkenylcarbonylamino, (C₂-C₈)-alkynylcarbonylamino, aminocarbonyl, (C₁-C₈)-alkylaminocarbonyl, di-(C₁-C₆)-alkylaminocarbonyl, (C₂-C₆)-alkenylaminocarbonyl, (C₂-C₆)-alkynylaminocarbonyl, (C₁-C₈)-alkoxycarbonylamino, (C₁-C₈)-alkylaminocarbonylamino, (C₁-C₆)-alkylcarbonyloxy which is unsubstituted or substituted by R^{51} , or is (C₂-C₆)-alkenylcarbonyloxy, (C₂-C₆)-alkynylcarbonyloxy, (C₁-C₈)-alkylsulfonyl, phenyl, phenyl-(C₁-C₆)-alkoxy, phenyl-(C₁-C₆)-alkoxycarbonyl, phenoxy, phenoxy-(C₁-C₆)-alkoxy, phenoxy-(C₁-C₆)-alkoxycarbonyl, phenylcarbonyloxy, phenylcarbonylamino, phenyl-(C₁-C₆)-alkylcarbonylamino, the 9 last-mentioned radicals being unsubstituted in the phenyl ring or mono- or polysubstituted by radicals R^{52} ; SiR'^3 , $O-SiR'^3$, $R'^3Si-(C_1-C_8)$ -alkoxy, $CO-O-NR'^2$, $ON=CR'^2$, $N=CR'^2$, ONR'^2 , NR'^2 , $CH(OR')^2$, $O(CH_2)_w-CH(OR')^2$, $CR'''(OR')^2$, $O(CH_2)_wCR'''(OR'')^2$ or $R''O-CHR'''CHCOR''-(C_1-C_6)$ -alkoxy;

15
20
25
30

R^{51} is identical or different halogen, nitro, (C₁-C₄)-alkoxy and phenyl which is unsubstituted or substituted by one or more radicals R^{52} ;

35

R^{52} is identical or different halogen, (C₁-C₄)-alkyl, (C₁-C₄)-alkoxy, (C₁-C₄)-haloalkyl, (C₁-C₄)-haloalkoxy or nitro;

R' is identical or different hydrogen, (C₁-C₄)-alkyl, phenyl which is unsubstituted or substituted by one or more radicals R⁵², or two radicals R' together form a (C₂-C₆)-alkanediyl chain,

5

R'' is identical or different (C₁-C₄)-alkyl or two radicals R'' together form a (C₂-C₆)-alkanediyl chain;

R''' is hydrogen or (C₁-C₄)-alkyl;

10

w is 0, 1, 2, 3, 4, 5 or 6.

4. A herbicidally active composition as claimed in claim 1 or 2 which comprises safeners of the formula (V) or their salts, where

15

R³⁰ is hydrogen, (C₁-C₆)-alkyl, (C₃-C₆)-cycloalkyl, furanyl or thienyl, each of the 4 last-mentioned radicals being unsubstituted or substituted by one or more substituents selected from the group consisting of halogen, (C₁-C₄)-alkoxy, halo-(C₁-C₆)-alkoxy and (C₁-C₄)-alkylthio and, in the case of cyclic radicals, also (C₁-C₄)-alkyl and (C₁-C₄)-haloalkyl;

20

R³¹ is hydrogen;

R³² is halogen, halo-(C₁-C₄)-alkyl, halo-(C₁-C₄)-alkoxy, (C₁-C₄)-alkyl, (C₁-C₄)-alkoxy, (C₁-C₄)-alkylsulfonyl, (C₁-C₄)-alkoxycarbonyl or (C₁-C₄)-alkylcarbonyl, preferably halogen, (C₁-C₄)-haloalkyl such as trifluoromethyl, (C₁-C₄)-alkoxy, halo-(C₁-C₄)-alkoxy, (C₁-C₄)-alkoxycarbonyl or (C₁-C₄)-alkylsulfonyl;

25

R³³ is hydrogen;

30

R³⁴ is halogen, (C₁-C₄)-alkyl, halo-(C₁-C₄)-alkyl, halo-(C₁-C₄)-alkoxy, (C₃-C₆)-cycloalkyl, phenyl, (C₁-C₄)-alkoxy, cyano, (C₁-C₄)-alkylthio, (C₁-C₄)-alkylsulfinyl, (C₁-C₄)-alkylsulfonyl, (C₁-C₄)-alkoxycarbonyl or (C₁-C₄)-alkylcarbonyl, preferably halogen, (C₁-C₄)-alkyl, (C₁-C₄)-haloalkyl such as trifluoromethyl, halo-(C₁-C₄)-alkoxy, (C₁-C₄)-alkoxy or (C₁-C₄)-alkylthio;

35

n is 0, 1 or 2 and

t is 1 or 2.

5. A herbicidally active composition as claimed in claim 1 or 2 which
5 comprises safeners of the formula (VI) in which

X^3 is CH;

R^{35} is hydrogen, (C₁-C₆)-alkyl, (C₃-C₆)-cycloalkyl, (C₂-C₆)-alkenyl, (C₅-
10 C₆)-cycloalkenyl, phenyl or 3- to 6-membered heterocyclyl having up to
three hetero atoms selected from the group consisting of nitrogen, oxygen
and sulfur, the six last-mentioned radicals optionally being substituted by
one or more identical or different substituents selected from the group
consisting of halogen, (C₁-C₆)-alkoxy, (C₁-C₆)-haloalkoxy, (C₁-C₂)-
15 alkylsulfinyl, (C₁-C₂)-alkylsulfonyl, (C₃-C₆)-cycloalkyl, (C₁-C₄)-
alkoxycarbonyl, (C₁-C₄)-alkylcarbonyl and phenyl and, in the case of cyclic
radicals, also (C₁-C₄)-alkyl and (C₁-C₄)-haloalkyl;

R^{36} is hydrogen, (C₁-C₆)-alkyl, (C₂-C₆)-alkenyl, (C₂-C₆)-alkinyl, the
20 three last-mentioned radicals optionally being substituted by one or more
identical or different substituents selected from the group consisting of
halogen, hydroxyl, (C₁-C₄)-alkyl, (C₁-C₄)-alkoxy and
(C₁-C₄)-alkylthio;

25 R^{37} is identical or different halogen, (C₁-C₄)-haloalkyl, (C₁-C₄)-
haloalkoxy, nitro, (C₁-C₄)-alkyl, (C₁-C₄)-alkoxy, (C₁-C₄)-alkylsulfonyl, (C₁-
C₄)-alkoxycarbonyl or (C₁-C₄)-alkylcarbonyl;

R^{38} is hydrogen;

30 R^{39} is identical or different halogen, nitro, (C₁-C₄)-alkyl, (C₁-C₄)-
haloalkyl, (C₁-C₄)-haloalkoxy, (C₃-C₆)-cycloalkyl, phenyl, (C₁-C₄)-alkoxy,
cyano, (C₁-C₄)-alkylthio, (C₁-C₄)-alkylsulfinyl, (C₁-C₄)-alkylsulfonyl, (C₁-
C₄)-alkoxycarbonyl or (C₁-C₄)-alkylcarbonyl;

35 s is 0, 1 or 2 and

o is 1 or 2.

6. A herbicidally active composition as claimed in one or more of claims 1 to 5, in which the weight ratio of herbicide:safener is 1:100 to 100:1.
- 5 7. A herbicidally active composition as claimed in one or more of claims 1 to 6 which additionally comprises a further herbicide.
8. A herbicidally active composition as claimed in claim 7, wherein the further herbicide is a sulfonylurea.
- 10 9. A method of controlling harmful plants in crops of useful plants, which comprises applying a herbicidally active amount of a herbicidally active composition as claimed in one or more of claims 1 to 8 to the harmful plants, the crop plants, the seeds of the plants or the area on which the plants grow.
- 15 10. The method as claimed in claim 9, wherein the plants belong to the group consisting of maize, wheat, rye, barley, oats, rice, sorghum, cotton and soya.
- 20 11. The method as claimed in claim 9 or 10, wherein the plants are genetically altered plants.
- 25 12. The use of a herbicidally active composition as claimed in one or more of claims 1 to 8 for controlling harmful plants in crops of useful plants.